

Electronic Filing System (EFS) Data

Electronic Patent Application Submission

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EFS ID: 12989
Application ID: 09683088
Title of Invention: SINGLE REACTOR, MULTI-PRESSURE CHEMICAL VAPOR DEPOSITION FOR SEMICONDUCTOR DEVICES
First Named Inventor: Jack Chu
Domestic/Foreign Application: Domestic Application
Filing Date: null
Effective Receipt Date: 2001-11-16 
Submission Type: Utility Patent Filing
Filing Type: new-utility
Confirmation Number: 0
Attorney Docket Number: BUR920000077
Digital Certificate Holder: cn=Robert A. Walsh, ou=Registered Attorneys, ou=Patent and Trademark Office, ou=Department of Commerce, o=U.S. Government, c=US
Certificate Message Digest: FZla9Gjo1EHjllutu7IW5A==

JC474 U.S. PRO
09/683088
11/16/01



TRANSMITTAL FORM

Electronic Version 1.0.2

Stylesheet Version: 1.0

Attorney Docket Number: BUR920000077

SINGLE REACTOR, MULTI-PRESSURE CHEMICAL VAPOR DEPOSITION FOR SEMICONDUCTOR DEVICES

First Named Inventor: Jack Chu

SUBMITTED BY

Name: Mr. Robert A. Walsh Esq.
Registration Number: 26,516
Electronic Signature Mark: Robert A.
Walsh /s/ Date Signed: 20011116

I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.

I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.

Attached Files:

| | |
|-------------------|-------------------------|
| bibd-transmittal | BUR920000077US1apds.xml |
| fee-transmittal | BUR920000077US1fee.xml |
| patent-assignment | BUR920000077US1asgn.xml |
| specification | BUR920000077US1.xml |
| declaration | BUR920000077 Dec. 1.tif |

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|-------------|-------------------------|
| declaration | BUR920000077 Dec. 2.tif |
| declaration | BUR920000077 Dec. 3.tif |
| declaration | BUR920000077 Dec. 4.tif |
| declaration | BUR920000077 Dec. 5.tif |
| declaration | BUR920000077 Dec. 6.tif |

Attached Image File(s):

BUR920000077 Dec. 1.tif
BUR920000077 Dec. 2.tif
BUR920000077 Dec. 3.tif
BUR920000077 Dec. 4.tif
BUR920000077 Dec. 5.tif
BUR920000077 Dec. 6.tif

Comments:

ASSIGNEE: INTERNATIONAL BUSINESS MACHINES CORPORATION ASSIGNEE ADDRESS: ARMONK, NY
10504

U S P T O P U B L I C A T I O N
A N D R E G I S T R A T I O N
O F P A T E N T S
A N D M A R K S

Declaration and Power of Attorney for Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SINGLE REACTOR, MULTI-PRESSURE CHEMICAL VAPOR DEPOSITION FOR SEMICONDUCTOR DEVICES.

the specification of which (check one)

is attached hereto.
was filed on _____ as Application Serial No. _____ and was amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s):

| Number | Country | Day/Month/Year | Priority Claimed |
|--------|---------|----------------|------------------|
|--------|---------|----------------|------------------|

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. Applications:

| Serial No. | Filing Date | Status |
|------------|-------------|--------|
|------------|-------------|--------|

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

Mark F. Chadurian, Reg. No. 30,739; Richard A. Henkler, Reg. No. 39,220; Richard M. Kotulak, Reg. No. 27,712; James M. Leas, Reg. No. 34,372; William D. Sabo, Reg. No. 27,465; Robert A. Walsh, Reg. No. 26,516; Howard J. Walter, Jr., Reg. No. 24,832; all of INTERNATIONAL BUSINESS MACHINES CORPORATION; Rudolf E. Hutz, Reg. No. 22,397; John D. Fairchild, Reg. No. 19,756; Harold Pezzner, Reg. No. 22,112; Richard M. Beck, Reg. No. 22,580; Paul E. Crawford, Reg. No. 24,397; Burton A. Amernick, Reg. No. 24,852; Morris Liss, Reg. No. 24,510; George R. Pettit, Reg. No. 27,369; Patricia Smink Rogowski, Reg. No. 33,791; Robert G. McMorrow, Jr., Reg. No. 30,962; Ashley I. Pezzner, Reg. No. 35,846; William E. McShane, Reg. No. 32,707; Mary W. Bourke, Reg. No. 30,982; Gerard M. O'Rourke, Reg. No. 39,794; James M. Olsen, Reg. No. 40,408; Francis DiGiovanni, Reg. No. 37,310; Eric J. Evans, Reg. No. 42,517; Daniel C. Mulvany, Reg. No. 45,897; John A. Evans, (Agent) 44,100; and Elliot C. Mendelson (Agent), Reg. No. 42,878; all of CONNOLLY BOVE LODGE & HUTZ, LLP; John E. Hoel, Reg. No. 26,279; Christopher A. Hughes, Reg. No. 26,914; Edward A. Pennington, Reg. No. 32,588; Joseph C. Redmond, Jr., Reg. No. 18,753; all of MORGAN & FINNEGAN, L.L.P.

Send all correspondence to:

Burton A. Amernick
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P.O. Box 19008
Washington, D.C. 20036-3426 U.S.A.
Atty. Reg. No. 24,852

and Direct Telephone Calls to: Burton Amernick at (202) 331-7111

(1) Inventor: Jack O. Chu

Signature:

Date

Residence: 44 Shelbourne Lane, Manhasset Hill, NY 11040

Citizenship: U.S.A.

Post Office Address: Same as residence.

(2) Inventor: Basanth Jagannathan

Signature:

Date

Residence: 1 Mountain View Knolls Drive, Apt. H, Fishkill, NY 12524 966 WOLCOTT AV, BEACON,

(B.J)

Citizenship: India

Post Office Address: Same as residence.

(3) Inventor: Ryan Wayne Wuthrich

Signature:

Date

Residence: 161 Austin Drive, #67, Burlington, VT 05401

Citizenship: U.S.A.

Post Office Address: Same as residence.

IBM Docket No.: BUR920000077US1

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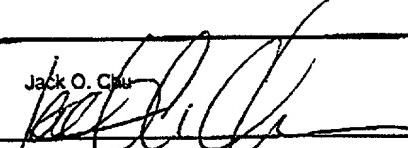
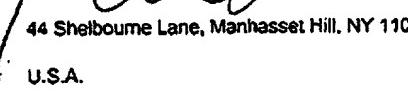
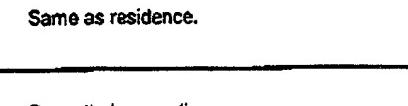
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and Direct Telephone Calls to: Burton Amernick at (202) 331-7111

| | | | |
|-----|----------------------|--|------------------------------|
| (1) | Inventor: | Jack O. Chu | <i>Nov. 14, 2001</i> Date |
| | Signature: |  | |
| | Residence: | 44 Shelbourne Lane, Manhasset Hill, NY 11040 | |
| | Citizenship: | U.S.A. | |
| | Post Office Address: | Same as residence. | |
| (2) | Inventor: | Basant Jagannathan | |
| | Signature: |  | |
| | Residence: | 1 Mountain View Knolls Drive, Apt. H, Fishkill, NY 12524 | |
| | Citizenship: | India | |
| | Post Office Address: | Same as residence. | |
| (3) | Inventor: | Ryan Wayne Wuthrich | |
| | Signature: |  | |
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Signature: _____ Date

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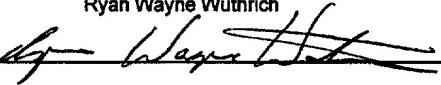
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Citizenship: India

Post Office Address: Same as residence.

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Signature:  "1/15/2001" Date

Residence: 161 Austin Drive, #67, Burlington, VT 05401

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FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

Patent fees are subject to annual revisions on or about October 1st of each year.

Large Entity

TOTAL FEES AUTHORIZED: \$ 780

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 09-0456



Deposit Account Name: International Business Machines Corporation

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

SUBMITTED BY

Authorized Name: Robert A. Walsh

Electronic Signature Mark: Robert A. Walsh /s/

Date Signed: 20011115

BASIC FILING FEE

| Fee Description | Fee Code | Fee Paid |
|--------------------|----------|----------|
| Utility Filing Fee | 101 | \$ 740 |

Subtotal For Basic Filing Fee: \$ 740

EXTRA CLAIM FEES

| | Fee Code | Fee | Extra Claims | Fee Paid |
|-----------------------|----------|-------|--------------|----------|
| Total Claims: 20 | 103 | \$ 18 | 0 | \$ 0 |
| Independent Claims: 2 | 102 | \$ 84 | 0 | \$ 0 |

Subtotal For Extra Claims Fees: \$ 0

ADDITIONAL FEES

| Fee Description | Fee Code | Fee Paid |
|---|----------|----------|
| Recording Each Patent Assignment Per Property Fee | 581 | \$ 40 |

Subtotal For Additional Fees: \$ 40

FEE STATEMENT